

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

<p>To: JOHN P. WHITE COOPER & DUNHAM LLP 1185 AVENUE OF THE AMERICANS NEW YORK, NEW YORK 10036</p> <p style="text-align: center;">SEP 23 2002</p>	<p>PCT</p>
<p>Applicant's or agent's file reference 62948-PCT/JPW/AX</p>	
<p>International application No. PCT/US02/09752</p>	
<p>Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK</p>	

<p>1. <input checked="" type="checkbox"/> The applicant is hereby notified that the international search report has been established and is transmitted herewith.</p> <p>Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):</p> <p>When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. <i>Article 19: 11/18/2002 SMC</i></p> <p>Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 <i>IDS: 12/18/2002 SMC</i> <i>(62948)</i></p> <p>For more detailed instructions, see the notes on the accompanying sheet.</p>	
<p>2. <input type="checkbox"/> The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.</p>	
<p>3. <input type="checkbox"/> With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:</p> <ul style="list-style-type: none"> <input type="checkbox"/> the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. <input type="checkbox"/> no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 	
<p>4. Reminders <i>9/30/02 SMC</i></p> <p>Shortly after <i>18 months</i> from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. <i>11/30/02 SMC</i> <i>9/30/2003 SMC</i></p> <p>Within <i>19 months</i> from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until <i>30 months</i> from the priority date (in some Offices even later); otherwise the applicant must, within <i>20 months</i> from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.</p> <p>In respect of other designated Offices, the time limit of <i>30 months</i> (or later) will apply even if no demand is filed within 19 months.</p> <p>See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the <i>PCT Applicants's Guide</i>, Volume II, National Chapters and the WIPO Internet site.</p>	

<p>Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230</p>	<p>Authorized officer <i>Alerie Bell-Harries for</i> ARUN CHAKRABARTI</p>
<p>Telephone No. (703) 308-0196</p>	

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 62948-PCT/JPW/AX	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US02/09752	International filing date (day/month/year) 29 MARCH 2002	(Earliest) Priority Date 30 MARCH 2001
Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (See Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/09752

A. CLASSIFICATION OF SUBJECT MATTER

-IPC(7) :C12Q 1/68
US CL :435/6, 91.1; 536/28.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 91.1; 536/28.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST, STN, MEDLINE, BIOSIS, CAPLUS, EMBASE
search terms: dideoxynucleotides, incorporation, mass spectrometry

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,046,005 A (JU et al.) 04 April 2000, see entire document.	1-24, 33-58
Y	ARBO et al, Solid Phase Synthesis of Protected Peptides Using New Cobalt (III) Ammine Linkers INT. J. Peptide Protein Res. 1993. Vol. 42, pages 138-154, see entire document.	25-32
X,P	US 6,316,230 B1 (EGHOLM et al) 13 November 2001, see entire document.	1-58
Y,P	US 6,218,118 B1 (SAMPSON et al) 17 April 2001, see entire document.	1-58
Y	US 5,174,962 A (BRENNAN) 29 December 1992, see entire document.	1-58

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance		
"E" earlier document published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

28 MAY 2002

Date of mailing of the international search report

18 SEP 2002

Name and mailing address of the ISA/US
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